

# PERFORMANCE NITRO BLACK VALVES

- 21-4N High Strength Stainless Alloy
- Swirl Polished for Improved Flow Characteristics
- Fully Undercut Stem
- Hard Wafer Tip
- One Piece Forging
- Proprietary Liquid Nitriding Process that Creates a Valve that is Smoother, Stronger and More Corrosion Resistant than Traditional Chromed Valves
- Deep Nitriding Provides Better Ductility Under the Hard Nitrided Layer as Proven in Rotating-Bending Fatigue Tests
- Valve is Less Likely to Break Even if Contacted by the Piston
- Greater Surface Hardness Means Less Valve Guide Wear
- Improved Corrosion Resistance even with Exotic Fuels
- Our Nitriding Process is Much Cleaner than Chroming- it's Better for the Environment



PART #	TYPE	HEAD DIAMETER	STEM DIAMETER	INSTALLED HEIGHT	OVERALL LENGTH	TIP LENGTH
<b>CHEVROLET SMALL BLOCK</b>						
01-3001-8	EXH	1.600	11/32"	STOCK	4.910	.250
01-3001.100-8	EXH	1.600	11/32"	+100	5.010	.250
01-3003-8	INT	2.020	11/32"	STOCK	4.910	.250
01-3003.100-8	INT	2.020	11/32"	+100	5.010	.250
01-3007.100-8	INT	2.055	11/32"	+100	5.010	.250
01-3008.100-8	INT	2.080	11/32"	+100	5.010	.250
<b>CHEVROLET BIG BLOCK</b>						
01-3004-8	EXH	1.880	3/8"	STOCK	5.352	.250
01-3004.100-8	EXH	1.880	11/32"	+100	5.452	.250
01-3005-8	INT	2.190	3/8"	STOCK	5.228	.250
01-3012.250-8	INT	2.250	11/32"	+250	5.478	.250
01-3013.250-8	INT	2.300	11/32"	+250	5.478	.250
<b>CHEVROLET LS1-- BEAD LOCK</b>						
01-3200-8	EXH	1.570	0.313"	STK	4.890	.160
01-3201-8	EXH	1.600	0.313"	STK	4.890	.160
01-3202-8	INT	2.020	0.314"	STK	4.880	.160
01-3206-8	INT	2.041	0.314"	STK	4.880	.160
01-3207-8	INT	2.055	0.314"	STK	4.880	.160

## Scanning Electron Microscope Comparison



Surface Texture Tests (Roughness measurement)  
 Nitro Black Rp: .....38.5 micro inches  
 Chrome Rp: .....48.8 micro inches

Laboratory tests prove that NITRO BLACK nitrided performance valves are more than 21% smoother than traditional chrome plated valves. Scanning electron microscope images back that up.

**Smoother valve stems mean less valve and valve guide friction.**

**Less friction means more power, less wear and less chance of breakage.**

# PERFORMANCE INCONEL ALLOY VALVES

- For Marine and Supercharged Applications
- Exotic Alloy Designed to Function in Extreme Heat Conditions
- One Piece Forging
- Swirl Polished For Improved Flow Characteristics
- Hard Wafer Tip

PART #	TYPE	HEAD DIAMETER	STEM DIAMETER	INSTALLED HEIGHT	OVERALL LENGTH	TIP LENGTH
<b>CHEVROLET BIG BLOCK</b>						
01-4301-8 INCONEL	EXH	1.890	3/8"	+0.048	5.400	.250
01-4312-8 INCONEL	EXH	1.880	11/32"	+0.098	5.450	.250
01-4313-8 INCONEL	EXH	1.900	11/32"	+0.098	5.450	.250

## STAINLESS VALVES

*Competition*  
**SERIES**

Out perform the competition with these superior stainless one-piece valves. Our Competition Series Valves feature 21-4N stainless alloy, hard wafer tip, chromed stem, full undercut and swirl polished for optimum flow.

- High Strength Stainless Alloy (21-4N)
- Swirl Polished for Improved Flow Characteristics
- Undercut Stem
- Hardened Tip
- One Piece Forging
- Hard Chrome Plated Stem



PART #	TYPE	HEAD DIAMETER	STEM DIAMETER	INSTALLED HEIGHT	OVERALL LENGTH	TIP LENGTH
<b>CHEVROLET SMALL BLOCK</b>						
01-2000-8	EXH	1.500	11/32"	STOCK	4.910	.250
01-2001-8	EXH	1.600	11/32"	STOCK	4.910	.250
01-2001.100-8	EXH	1.600	11/32"	+100	5.010	.250
01-2002-8	INT	1.940	11/32"	STOCK	4.910	.250
01-2003-8	INT	2.020	11/32"	STOCK	4.910	.250
01-2003.100-8	INT	2.020	11/32"	+100	5.010	.250
01-2007.100-8	INT	2.055	11/32"	+100	5.010	.250
01-2008.100-8	INT	2.080	11/32"	+100	5.010	.250

<b>CHEVROLET BIG BLOCK</b>						
01-2004-8	EXH	1.880	3/8"	STOCK	5.352	.250
01-2004.100-8	EXH	1.880	11/32"	+100	5.452	.250
01-2005-8	INT	2.190	3/8"	STOCK	5.228	.250
01-2012.250-8	INT	2.250	11/32"	+250	5.478	.250
01-2013.250-8	INT	2.300	11/32"	+250	5.478	.250

## STAINLESS VALVES

**Street**  
**SERIES**

Engine Pro Performance Stainless Valves feature superior design engineering and enhanced product features. Our valves are manufactured to exacting standards and from only the highest quality materials.

- Undercut Stem
- Fully Machined
- Hardened Tip
- One Piece Forging
- Stainless Steel Alloy
- Hard Chrome Plated Stem



PART #	TYPE	HEAD DIAMETER	STEM DIAMETER	INSTALLED HEIGHT	OVERALL LENGTH	TIP LENGTH
<b>CHEVROLET SMALL BLOCK</b>						
01-1000-8	EXH	1.500	11/32"	STOCK	4.910	.250
01-1001-8	EXH	1.600	11/32"	STOCK	4.910	.250
01-1001.100-8	EXH	1.600	11/32"	+100	5.010	.250
01-1002-8	INT	1.940	11/32"	STOCK	4.910	.250
01-1003-8	INT	2.020	11/32"	STOCK	4.910	.250
01-1003.100-8	INT	2.020	11/32"	+100	5.010	.250
01-1007-8	INT	2.055	11/32"	STOCK	4.910	.250
01-1007.100-8	INT	2.055	11/32"	+100	5.010	.250
01-1008-8	INT	2.080	11/32"	STOCK	4.910	.250
01-1008.100-8	INT	2.080	11/32"	+100	5.010	.250

<b>CHEVROLET BIG BLOCK</b>						
01-1011-8	EXH	1.720	3/8"	STOCK	5.352	.250
01-1004-8	EXH	1.880	3/8"	STOCK	5.352	.250
01-1010-8	INT	2.065	3/8"	STOCK	5.228	.250
01-1005-8	INT	2.190	3/8"	STOCK	5.228	.250

<b>FORD SMALL BLOCK</b>						
01-1102-8	EXH	1.460	11/32"	STOCK	5.070	.395
01-1101-8	INT	1.780	11/32"	STOCK	5.070	.395